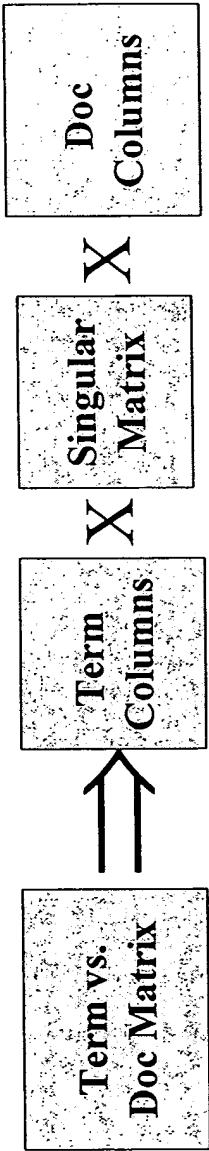


FIGURE 1. Example of the Large Result Sets of Internet Searches

FIGURE 2 Term by Document Matrix

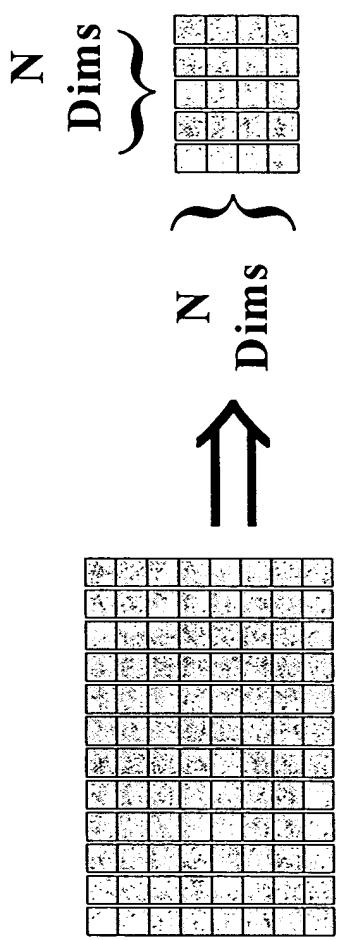
	Doc #1	Doc #2	...	Doc #n
able	1	0		1
acid	0	2		0
...	...	...	...	...
$<term\ m>$	-1	0		1



**SVD Extracts Key  
Relationships among Terms -  
Basis for Conceptual Matching**

2

**FIGURE 3 – Singular Value Decomposition (SVD) Operation**



Large, Sparse Matrix      LSI Vector Space

Typically, N= Several Hundred

FIGURE 4 – Dimensionality Reduction

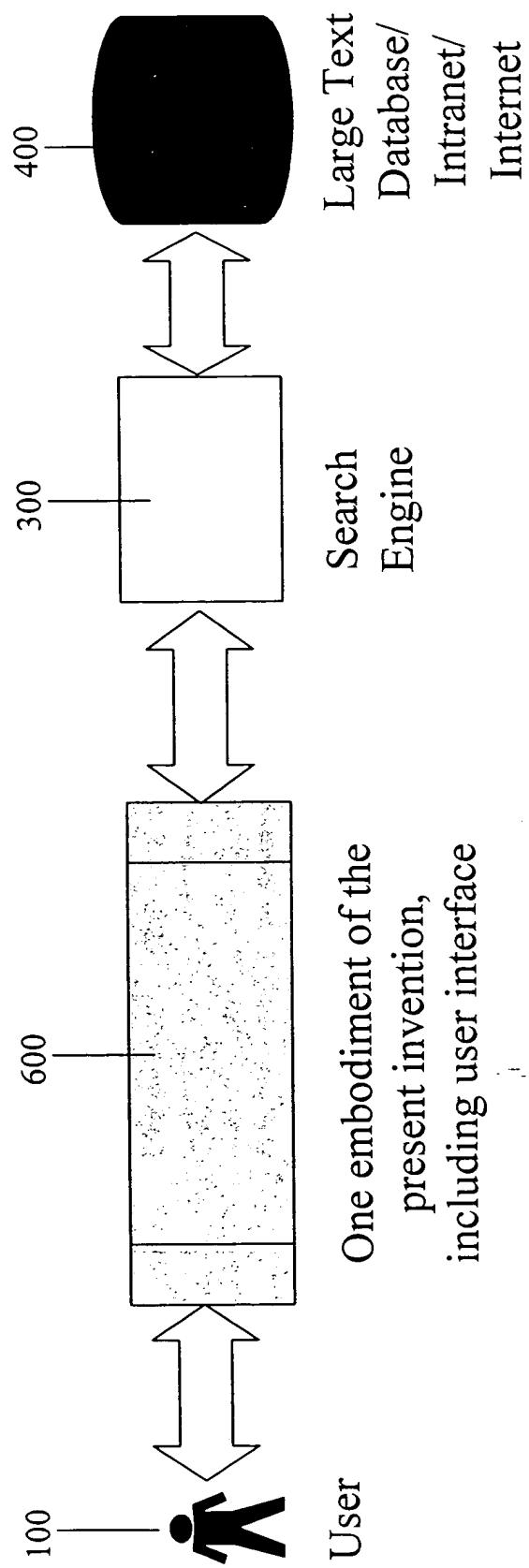


FIGURE 5. Intermediary Role of the Present Invention

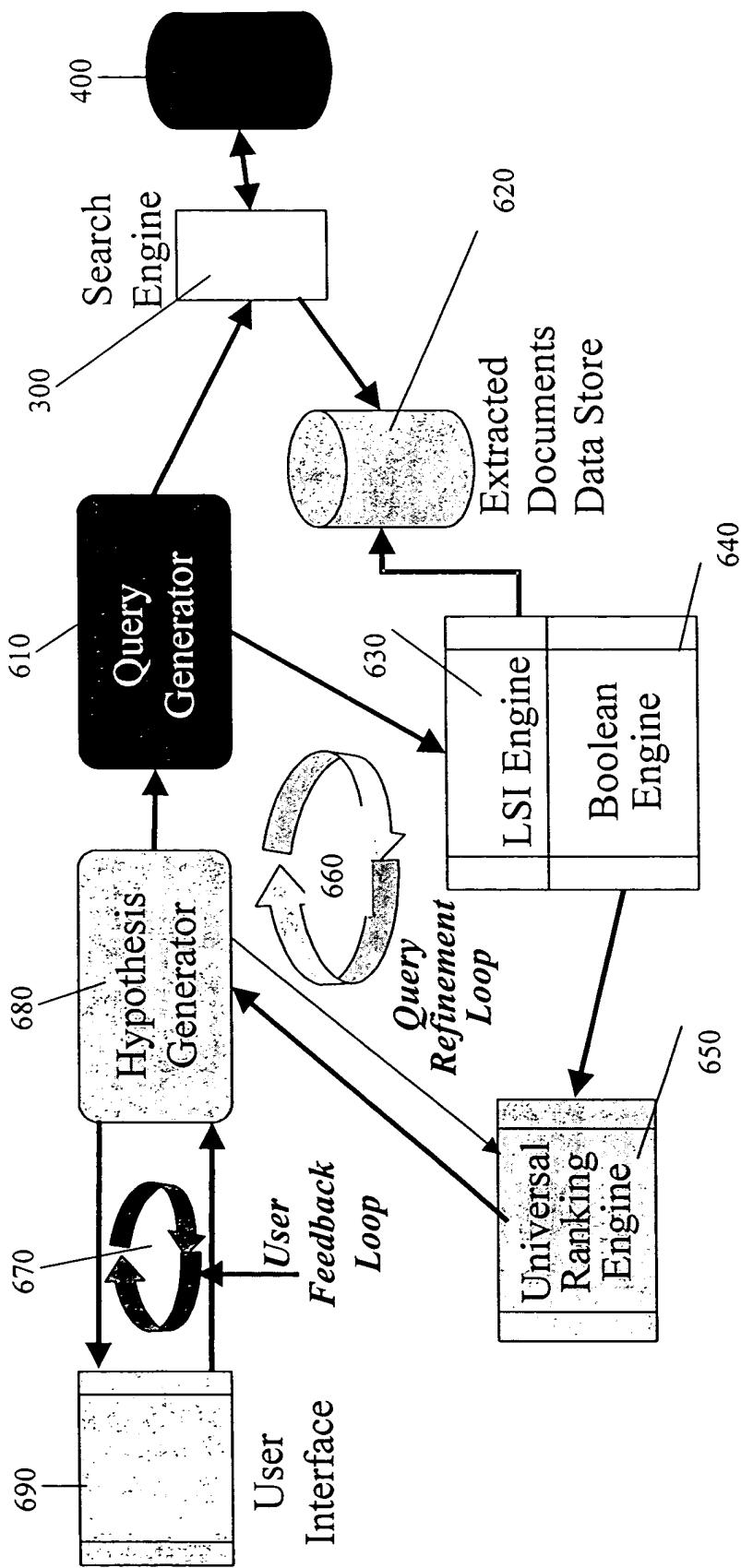


FIGURE 6. Feedback Loops of the Present Invention

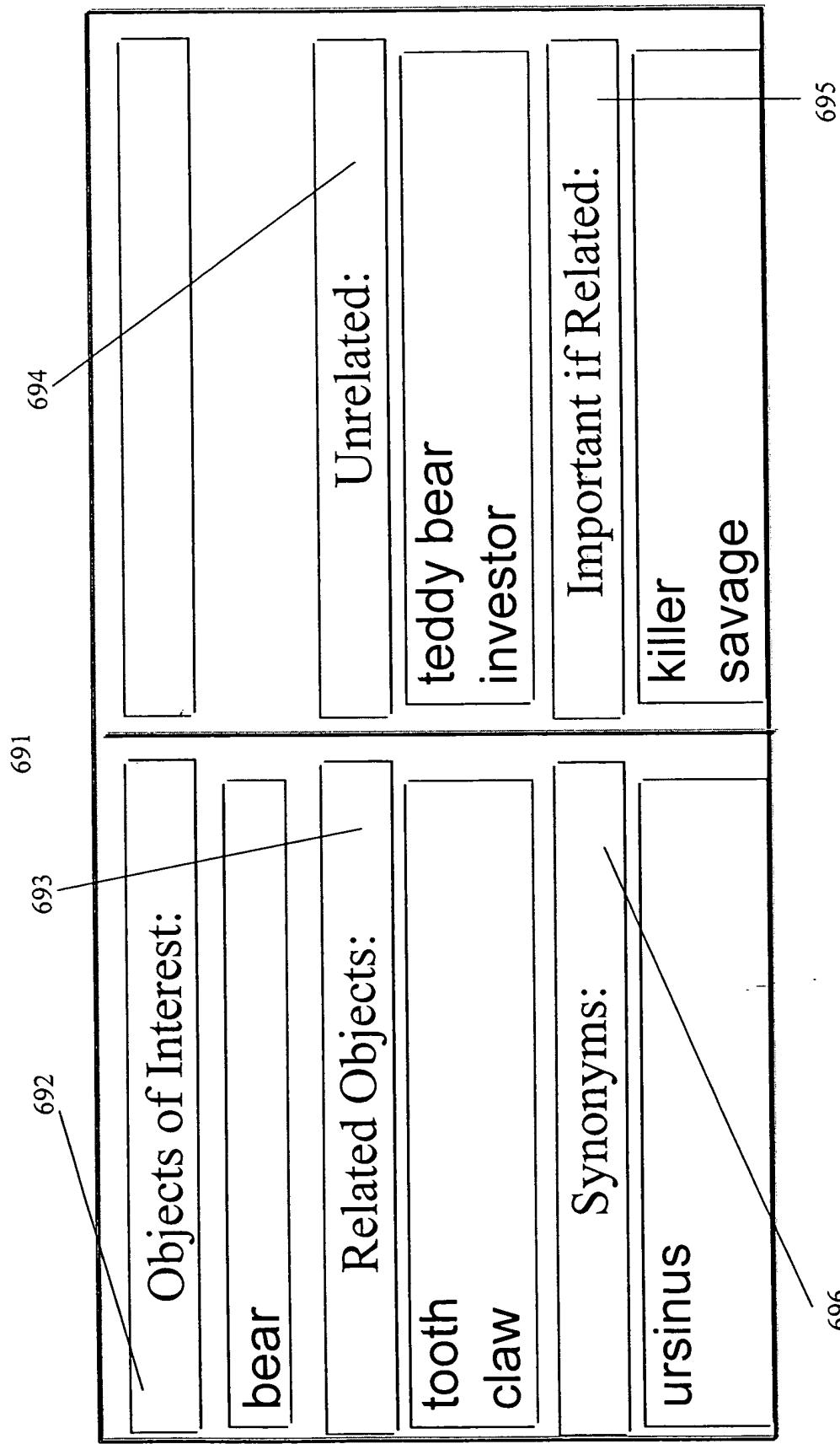
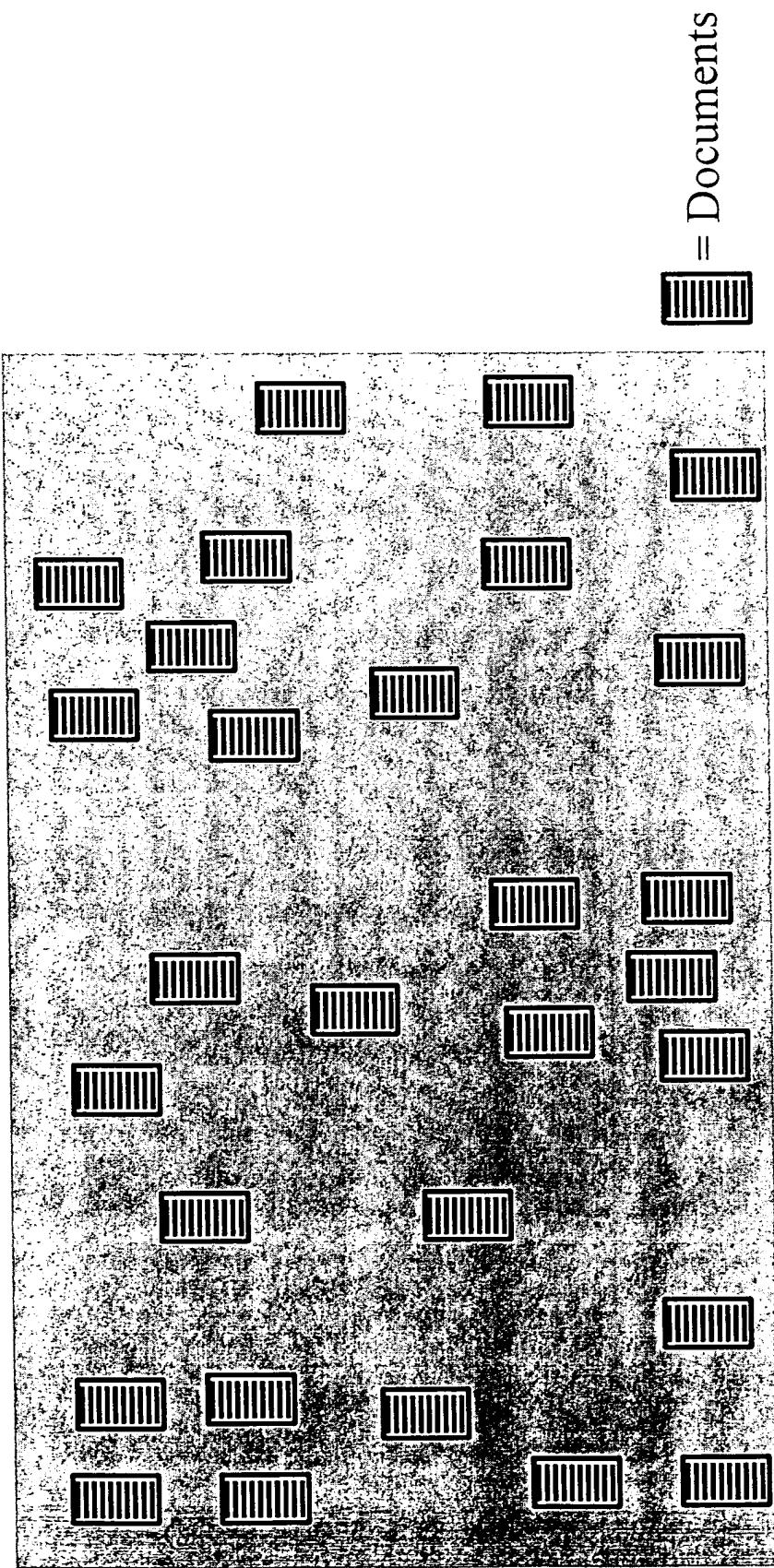


FIGURE 7. Simple User Interface

**FIGURE 8. Two-Dimensional Representation of an LSI Space**



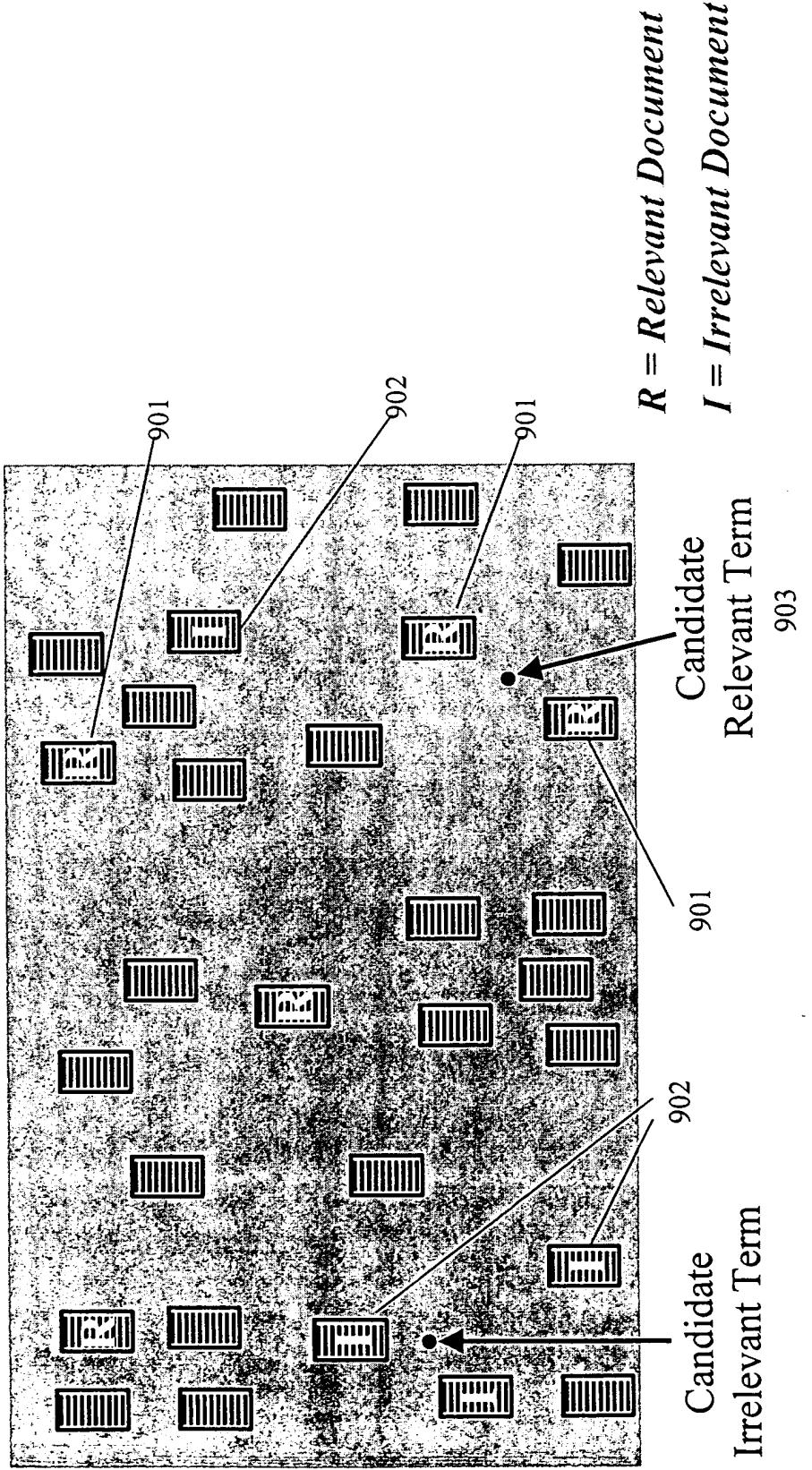


FIGURE 9. Proximity of Relevant Terms to Relevant Documents and Irrelevant Terms to Irrelevant Documents

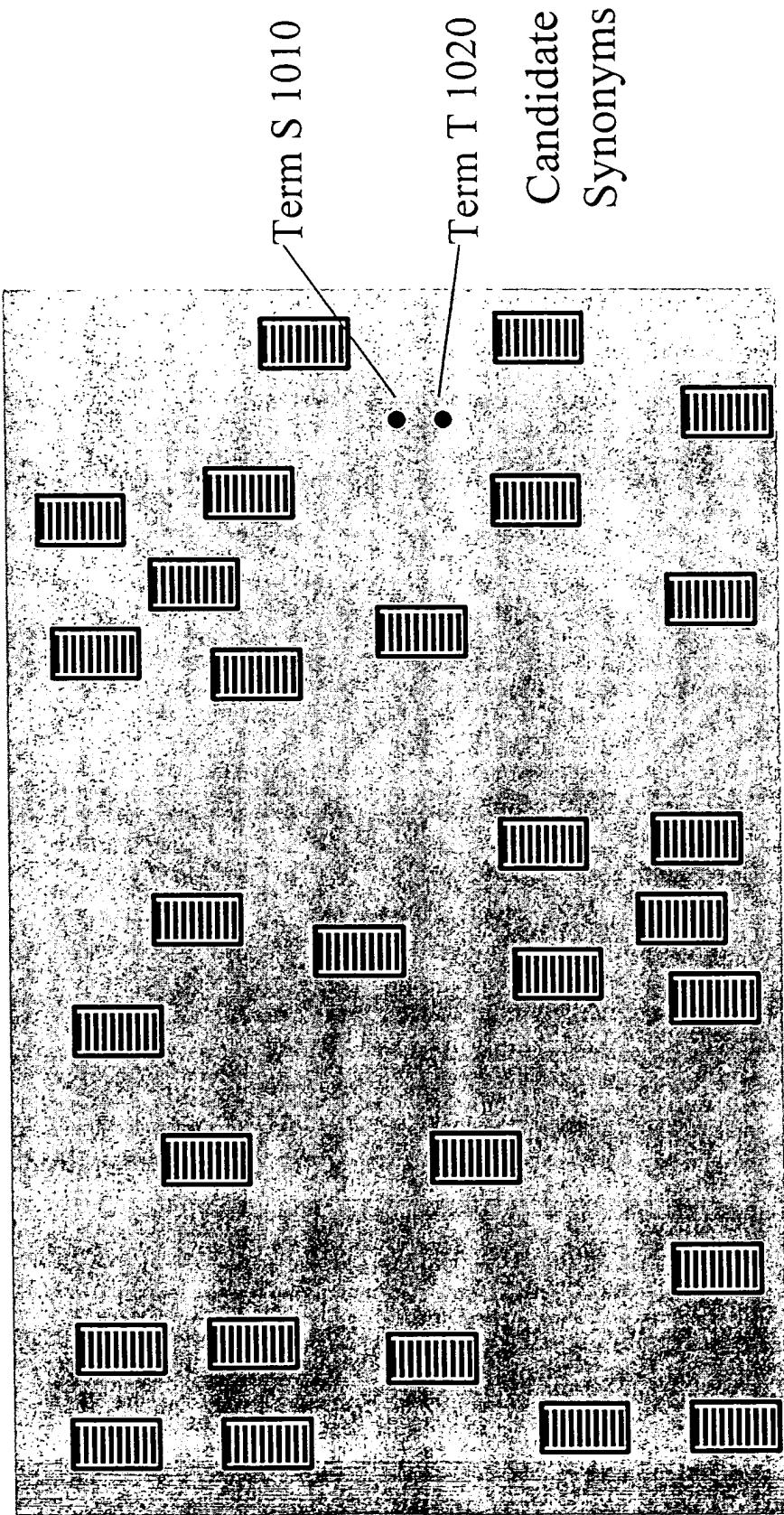


FIGURE 10. Candidate Synonym Terms

Are Koala **bears** objects of interest?

Yes  No  Don't Know

Is ant **bear** a relevant object?

Yes  No  Don't Know

Is cub **scout** an irrelevant term?

Yes  No  Don't Know

Is Ursinus a synonym for bear?

Yes  No  Don't Know

**Submit**

FIGURE 11. User Interface for Specific Feedback